

STAFF REPORT

Meeting Date: 07/08/05
Agenda Item: 7

To: BEACON Board of Directors
From: Contracts Manager
Date 06/30/05

Subject: Coast of California Storm & Tidal Wave Study

REQUIRED ACTION:

Coast of California Storm and Tidal Wave Study (CCSTWS)

Action:

- a. Authorize Executive Director to approve an agreement between BEACON and Texas Bureau of Economic Geology for not to exceed \$80,000 for Lidar surveys.
- b. Authorize Executive Director to approve payment to US Corps of Engineers for \$40,000 of local match funds for management and oversight of CCSTWS.

DISCUSSION:

The Army Corps of Engineer's Coast of California Storm & Tidal Wave Study (CCSTWS) program seeks to develop regional shore protection/sand management plans for the entire California coastline. The program is being implemented by region/county basis, with San Diego being first, followed by Monterey, Los Angeles, and Orange County. Now, it's Santa Barbara and Ventura Counties' turn.

The purpose of the study is to gain a better understanding of the underlying coastal processes that govern the width of our beaches and the movement of sand along our coastline. The study does not focus on individual beach erosion problems and/or solutions. The scope of the study is set forth in the Project Master Plan (PMP). The study includes a series of wave and coastal bathymetry measurements as well as an in-depth assessment of local coastal processes. The overall cost of the study is \$2.78M, spread out over a four-year period. The primary benefits of the study will be a better understanding of our local coastal processes and beach erosion problems, an improved set of tools to predict future beach erosion patterns in our region, and a means for rapidly disseminating the information to interested government planning, engineering and regulatory agencies.

As the local sponsor, BEACON has signed a Feasibility Cost Sharing Agreement (FCSA) with the US Corps of Engineers (USCOE). The FCSA stipulates that BEACON will be responsible for 50% of the cost of the study (\$1.39M), which can be made up of cash or in-kind services. The State can also contribute towards the local sponsor's share of the cost. This commitment is non-binding on either party, with the study being delayed if Federal and/or Local funds are not available. The work is typically performed/managed by the USCOE.



A California Joint Powers Agency

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BEACON BOARD OF DIRECTORS' MEETING ANNOUNCEMENT

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The State Department of Boating & Waterways (DB&W) has obligated to date a total of \$650,000 to BEACON towards the local share. Of the \$650,000 obligated, \$250,000 expires in the summer of 2005.

In this current fiscal year, the USCOE has very little committed funding towards the CCSTWS. As a result of this and due to the potential expiration of \$250,000 of DBAW funds granted to BEACON, it has been agreed between the USCOE, BEACON and DBAW, that BEACON will go ahead and fund a number of upfront studies required by the Project Master Plan (PMP). By proceeding with these studies the CCSTWS keeps moving despite the lack of USCOE funding while at the same time the cost of the studies contribute as "in-kind" services for BEACON as part of their local share (50%) of the program.

To date, BEACON has authorized two studies to be funded by BEACON through the DBAW Grant Funds. These are:

Study: Wave Study.
By: University of California San Diego Scripps Institute of Oceanography (Scripps).
Budget: Not to exceed amount of \$170,000.

Study: Baseline Surveys.
By: United States Geologic Survey (USGS).
Budget: Not to exceed amount of \$395,000.

Staff is requesting that the Board authorize the Executive Director to approve a third contract the details of which are as follows:

Study: Lidar Surveys.
By: Texas Bureau of Economic Geology.
Budget: Not to exceed amount of \$80,000.
Scope: Aerial digital topography of shoreline from bluffs to mean low tide. The limits of the surveys are from Point Conception to Point Magu. Completion of this work will allow the development of digital terrain mapping (DTM) and base mapping for GIS.

Staff anticipates that a contract will be executed by the Fall 2005. The contract amount will not exceed the amount indicated above. There are sufficient funds through the Department of Boating and Waterways Grant to cover this Lidar Survey effort.

In addition, under the executed Feasibility Cost Sharing Agreement (FCSA) between BEACON and the US Corps of Engineers (USCOE), the USCOE has requested a \$40,000 local share matching contribution to USCOE for continue oversight and management of the Coast of California Storm and Tidal Wave Study (CCSTWS). Staff is recommending that the Board authorize the Executive Director to approve a payment of up to \$40,000 to USCOE. There are sufficient funds through the Department of Boating and Waterways Grant to pay for this contribution.